| ENROY RESPONSIVE TO A SENSED CORDITION  2 WITH INDICATOR  4 PLURAL ENGINES WITH SINGLE FROPELLING MEANS  5 HYDRAULIC FULUID DRIVE FOR FROPELLING MEANS  6 ELECTRIC DRIVE FOR PROPELLING MEANS  7 With foot control  8 WIND DRIVEN MOTORS  9 WAVE POWERED FROPELLING MEANS  10 .By oscillating weight  11 POWERED FROM LAND VEHICLE SUPPORTED BY VESSEL  12 .Land vehicle is two-wheel type WEBSIC SCH. AMPHIENOUS LAND AND WATER PROPULSION MEANS (2.5, AMPHIENOUS) VEHICLE)  12 .S SLE-PROPELLED VEHICLE HAVING LAND AND WATER PROPULSION MEANS (2.5, AMPHIENOUS) VEHICLE)  12 .S Water propulsion means moveable to means for land and water 30 Chain and sprocket 31 Having separated propulsion means moveable 32 Water propulsion means is moveable 33 Water propulsion means is moveable 34 And land propulsion means is moveable 35 Water propulsion means is moveable 36 Cround wheel or poler 37 Water propulsion means is moveable 38 And land propulsion means is moveable 39 And land propulsion means is moveable 30 And Individe for propulsion means 31 Water propulsion means is moveable 32 Spropulsion means 33 Water propulsion means 34 Cable system 35 Track system 36 Ground wheel or poler 37 And Individe for propulsion means 38 JERVEN WHEN CLEAN CABLE 39 Spropulsion means 40 Spropulsion means 41 Spropulsion means 42 Provolution ontrol for fluid jet 36 Spropulsion means 47 Whotor driver sorew propeller 48 Spropulsion means 49 Spropulsion means 40 Spropulsion means 40 Spropulsion means 41 Spropulsion means 42 Spropulsion means 43 Spropulsion means 44 Spropulsion means 45 Spropulsion means 46 Spropulsion means 47 Spropulsion means 48 Spropulsion means 49 Spropulsion deans 40 Spropulsion means 40 Spropulsion means 41 Spropulsion means 42 Spropulsion means 43 Spropulsion deans 44 Spropulsion fluid is pressurized 45 Spropulsion deans 46 Spropulsion fluid is pressurized  | 1     | MEANS TO CONTROL THE SUPPLY OF  | 12.7       | Having peripherally mounted             |
|--|-------|---------------------------------|------------|---|
| ### WITH INDICATOR   |       | ENERGY RESPONSIVE TO A SENSED   |            | cleat means                             |
| DIVERSE ENINE MEANS  15 DIVERSE ENINE MEANS  16 PIURAL ENGINES WITH SINGLE FORPELLING MEANS  17 Reaving nompropelling cycle segment FORDELLING MEANS  18 Piston and cylinder FORDELLING MEANS  19 With foot control  10 REANS  11 POWRED FROM LAND VEHICLE SUPPORTED BY VESSEL  12 Land vehicle is two-wheel type VEHICLE)  12 Land vehicle is two-wheel type VEHICLE  13 Land sparated propulsion means for land and water  14 Propulsion means 15 Laver with connecting linkage  16 Laving separated propulsion means for land and water  17 Laving separated propulsion moveable  18 Propulsion means 19 Laving hope propulsion means is moveable  10 Laving separated propulsion means is moveable  12.55 Linker propulsion means is moveable  12.56 Plexible endless track propulsion means 12.57 .Motor driver screw propeller shaft  12.58By gearing 12.60By gearing 12.61Spur gearing 12.62Dependence track propulsion means 12.64Driven by sprocket-type wheel 12.65Bevel gearing 12.66Bevel gearing 12.67Drum type 12.68Baving integral spoke and propelling blade 12.67Drum type 12.68Having integral spoke and propelling blade 12.69Having integral spoke and propelling hade  12.69Having integral spoke and propelling blade 12.69Having integral spoke and propelling device as segment Reaving more reportaling element to nonpropelling positionWith means to move propelling element to nonpropelling positionWith reversing means element to nonpropelling positionWith reversing means  18Bieving arm where reportance in move propelling element to nonpropelling positionWith the ment to nonpropelling positionWith draw craim type  19Water eversing means  10Graim and sprocketBaving and lever seriesBaving and lever memberChain and sprocketBaving propelling lade  10Chain and sprocketBaving propelling lade  11Cable systemCable systemCable systemCable systemCable systemCable systemCable systemCable systemCable systemCable syste   |       | CONDITION                       | _          | *************************************** |
| ### PLURAL ENGINES WITH SINGLE PROPELLING MEANS   16   | 2     | WITH INDICATOR                  |            |   |
| PROPELLING MEANS 17  | 3     | DIVERSE ENGINE MEANS            | _          |   |
| Segment  | 4     | PLURAL ENGINES WITH SINGLE      |            |   |
| PROPELLING MEANS 6 ELECTRIC DRIVE FOR PROPELLING MEANS 7 .With foot control 8 WIND DRIVEN MOTORS 9 WAVE FOWERED PROPELLING MEANS 10 .By oscillating weight 11 POWERED PRON LAND VEHICLE 22 SUPPORTED BY VESSEL 23 .Land vehicle is two-wheel type 12.5 SELF-PROPELLED WEHICLE HAVING LAND AND WATER PROPULSION MEANS (E.G., AMPHIBIOUS VEHICLE) 22 .Land vehicle ois two-wheel type 12.51 .Having separated propulsion means for land and water 12.52 .Propulsion means moveable to stowed position 12.53Water propulsion means is moveable 12.54And land propulsion means is moveable 12.55 .Operator powered drive for propulsion means 12.56 .Flexible endless track propulsion means 12.57Motor driven screw propeller shaft 12.58By flexible endless member (e.g., belt, chain) 12.59By gearing 12.60Bevel gearing 12.61Spur gearing 12.62 .Operator powered drive for propulsion means 12.63 .Flexible endless track propulsion means 12.66Bevel gearing 12.67Dermatory propulsion means 12.68Furchion by sprocket-type wheel 12.66Bevel gearing 12.67Driw type 12.68Having integral spoke and propelling blade  PositionWith means to nonve propelling element to nonpropelling positionWith means to now; with means element to nonpropelling positionWith reversing means  POPERATOR POWERED ROVER PROPELLING MEANS .Rocking watercraftFlocking watercraftFlouid pumpHaving areciprocating pull cableBaving elementFlouid pumpHaving endless or pedalHaving elementChain and sprocketHaving elementChain and sprocketLever with connecting linkageLever with connecting linkageLever with connecting linkageTrack systemChain and sprocketLever with connecting linkageLever with connecting linkageL   |       | PROPELLING MEANS                | 17         | .Having nonpropelling cycle             |
| ELECTRIC DRIVE FOR PROPELLING MEANS  With foot control  MID RIVEN MOTORS  MAND POWERED PROPELLING MEANS  POWERED PROPELLING MEANS  MIND DRIVEN MOTORS  MAYE POWERED PROPELLING MEANS  SUPPORTED BY VESSEL  Land vehicle is two-wheel type  LAND AND WARE PROPULSION MEANS (E.G., AMPHIBIOUS  VEHICLE)  LAND AND WARE PROPULSION MEANS for land and water  12.51  | 5     | HYDRAULIC FLUID DRIVE FOR       |            | _                                       |
| MEANS 7 With foot control 8 WIND DRIVEN MOTORS 9 WAVE POWERED PROPELLING MEANS 10 By oscillating weight 11 POWERED FROM LAND VEHICLE 8 SUPPORTED BY VESSEL 22 SUPPORTED BY VESSEL 23 Fluid pump 12.5 SELF-PROPELLED VEHICLE HAVING 12 LAND AND WATER PROPULSION 12 MEANS (E.G., AMPHIBIOUS 25 VEHICLE) 12.51 Having separated propulsion 12.52Propulsion means moveable to 12.53Water propulsion means sis 12.54And land propulsion means is 12.55Operator powered drive for 12.56Flexible endless track 22.57Motor driven screw propeller 23.58By gearing 24.59By gearing 25.59By gearing 26.61Spur gearing 27.62Devailsion means 28.63Flexible endless track 29.64Devailsion means 29Having endless drive member 29Chain and sprocket 29Having endless drive member 29Chain and sprocket 29Having endless drive member 29Chain and sprocket 29Lever with connecting linkage 20Lever with connecting linkage 20Lever with connecting linkage 20And land propulsion means is 35 20Track system 20Gable system 20Lever with connecting linkage 20Lever with connecting linkag   |       | PROPELLING MEANS                | 18         | -                                       |
| With foot control   Real Note   Real Not | 6     | ELECTRIC DRIVE FOR PROPELLING   | 19         | With means to move propelling           |
| ## WIND DRIVEN MOTORS 20   |       | MEANS                           |            |   |
| MANUE POWERED PROPELLING MEANS   10   By oscillating weight   22   Rocking watercraft   SupportED BY VESSEL   23   Fluid pump   12   Land vehicle is two-wheel type   24   Rocking watercraft   SupportED BY VESSEL   23   Fluid pump   12   Self-propelled Vehicle Having   25   Siliding handle or pedal   Rotary cranking arm   MEANS (E.G., AMPHIBIOUS   27   Plural-crank type   Vehicle)   28   Rotary cranking arm   MEANS (E.G., AMPHIBIOUS   27   Plural-crank type   12   Having separated propulsion   29   Having flexible drive shaft   12.52   Propulsion means moveable to   31   Including gear means   Stowed position   32   Lever with connecting linkage   12.53   Water propulsion means is   35   Towing   Towing   Moveable   34   Cable system   12.54  And land propulsion means   35   Track system   Moveable   34   Cable system   12.55   Propulsion means   38   JET DRIVE   12.55   Propulsion means   38   JET DRIVE   12.56   Propulsion means   40   Propulsion control for fluid jet   Shaft   Motor driven screw propeller   40   Direction control for fluid jet   Shaft   Propulsion means   42   Propulsion fluid is pressurized   98   Propulsion means   42   Propulsion fluid is pressurized   98   Propulsion means   45   Propulsion fluid is pressurized   98   Propulsion means   46   Having means to increase fluid   47   Riving means to increase fluid   48   Propulsion means   46   Riving means to increase fluid   47   Riving means to increase fluid   48   Riving means to increase fluid   49   Riving me     | 7     | .With foot control              |            | position                                |
| By oscillating weight   PROPELLING MEANS   Supported by Vessel   23   Fluid pump   12.5   Self-Propelled vehicle is two-wheel type   24   Having reciprocating pull cable   Self-Propelled vehicle is two-wheel type   25   Self-Propelled vehicle is two-wheel type   26   Having reciprocating pull cable   Self-Propelled vehicle is two-wheel type   26   Having reciprocating pull cable   Self-Propelled vehicle is two-wheel type   26   Having reciprocating pull cable   Self-Propelled vehicle is two-wheel type   27   Having reciprocating pull cable   Rotary cranking arm   Fluid pump   Self-Propelled vehicle   Self-Propelled   Self-Propel | 8     | WIND DRIVEN MOTORS              | 20         | With reversing means                    |
| 10   | 9     | WAVE POWERED PROPELLING MEANS   | 21         | OPERATOR POWERED DRIVE FOR              |
| SUPPORTED BY VESSEL 23 .Fluid pump  12   | 10    | .By oscillating weight          |            | PROPELLING MEANS                        |
| Land vehicle is two-wheel type  24   | 11    | POWERED FROM LAND VEHICLE       | 22         | .Rocking watercraft                     |
| 12.5 SELF-PROPELLED VEHICLE HAVING LAND AND WATER PROPULSION MEANS (E.G., AMPHIBIOUS VEHICLE)  12.51 .Having separated propulsion means for land and water  12.52 .Propulsion means moveable to stowed position  12.53 Water propulsion means is moveable  12.54 And land propulsion means is moveable  12.55 .Operator powered drive for propulsion means  12.56 .Flexible endless track propulsion means  12.57 Motor driven screw propeller shaft  12.58 By flexible endless member (e.g., belt, chain)  12.59 By gearing  12.60 Evel gearing  12.61 Spur gearing  12.62 Spur gearing  12.63 Evel gearing  12.64 Drum type  12.65 Helical screw propulsion means  12.66 Evel gearing  12.67 Drum type  12.68 Helical screw propulsion means  12.69 Having propelling blade  12.69 Having propelling blade  12.69 Having propelling blade  12.69 Having propelling blade  25 Sliding handle or pedal Rotary cranking arm Rotary cranking arm Pleuxing flexible drive shaft Having earm sprocket Having flexible drive shaft Lhaving earm sprocket Chain and sprocket Having earm sprocket Lhaving earm seans Chain and sprocket Having elexible drive shaft Lhaving earm seans Chain and sprocket Lhaving earm seans Chain and sprocket   |       | SUPPORTED BY VESSEL             | 23         | .Fluid pump                             |
| LAND AND WATER PROPULSION MEANS (E.G., AMPHIBIOUS VEHICLE)  12.51 Having separated propulsion means for land and water  12.52 .Propulsion means moveable to stowed position 12.53Water propulsion means is moveable 12.54And land propulsion means is moveable 12.55Operator powered drive for propulsion means 12.56Flexible endless track propulsion means 12.57Motor driven screw propeller 12.58By flexible endless member (e.g., belt, chain) 12.59By gearing 12.60Spur gearing 12.61Spur gearing 12.62Spur gearing 12.63Plexible endless track propulsion means 12.64Spur gearing 12.65Deventor powered drive for propulsion means 12.66Bevel gearing 12.67Deventor powered drive for propulsion means 12.68Bufflexible endless member (e.g., belt, chain) 12.61Spur gearing 12.62Dever with connecting linkageLever with connecting linka  | 12    | .Land vehicle is two-wheel type | 24         | .Having reciprocating pull cable        |
| LAND AND WATER PROPULSION MEANS (E.G., AMPHIBIOUS VEHICLE)  12.51  | 12.5  |                                 | 25         | .Sliding handle or pedal                |
| MEANS (E.G., AMPHIBIOUS VEHICLE)  12.51Having separated propulsion means for land and water  12.52Propulsion means moveable to stowed position  12.53Water propulsion means is moveable  12.54And land propulsion means is moveable  12.55Operator powered drive for propulsion means  12.56Flexible endless track propulsion means  12.57Motor driven screw propeller shaft  12.58By flexible endless member (e.g., belt, chain)  12.59By gearing  12.60Bevel gearing  12.61Spur gearing  12.62Derator powered drive for propulsion means  12.63By rearing  12.64Driven by sprocket-type wheel 12.65Briven by sprocket-type wheel 12.66Helical screw propulsion means  12.66Briven by sprocket and propulsion means  12.66Briven by sprocket-type wheel 12.67Drum type 12.68Having integral spoke and propelling blade  12.69Having propelling blade  29Having means to increase fluid ampening  12.69Having propelling blade  20Laving means to increase fluid appropelling blade  21.69Having propelling blade  |       |                                 | 26         | .Rotary cranking arm                    |
| 12.51 Having separated propulsion means for land and water 30Chain and sprocketPropulsion means moveable to 31Including gear means stowed position 32 .Lever with connecting linkage 12.53Water propulsion means is 33Water propulsion means is 34Cable system 34And land propulsion means is 35Track system moveable 36Operator powered drive for 37 AIR PROPELLED BOAT propulsion means 38 JET DRIVE 12.55Operator powered drive for 37 AIR PROPELLED BOAT propulsion means 38 JET DRIVE 12.56By flexible endless track 39Auxiliary use of propulsive fluid 12.57Motor driven screw propeller 40Spur gearing 41With bucket or clamshell-type reversing means (e.g., belt, chain) 42Pivoted outlet 12.59By gearing 43Pivoted vane 12.61Spur gearing 44Propulsion fluid is pressurized 39Produced by combustion 39 propulsion means 46Browled means 46Browled means 47Browled means 47Browled means 46Browled means 47Browled means 47Browled means 48Browled means 49Browled me   |       |                                 | 27         | Plural-crank type                       |
| 12.51  |       | VEHICLE)                        | 28         | Having flexible drive shaft             |
| means for land and water 30Chain and sprocket  12.52Propulsion means moveable to stowed position 32 .Lever with connecting linkage  12.53Water propulsion means is 32 .Cable system  moveable 34 .Cable system  12.54And land propulsion means is 35 .Track system  moveable 36 .Ground wheel or poler  12.55 .Operator powered drive for propulsion means 38 .JET DRIVE  12.56Flexible endless track 39 .Auxiliary use of propulsive fluid propulsion means fluid  12.57 .Motor driven screw propeller 40 .Direction control for fluid jet shaft 41With bucket or clamshell-type reversing means (e.g., belt, chain) 42Pivoted outlet  12.58By flexible endless member (e.g., belt, chain) 42Pivoted outlet  12.59By gearing 43Pivoted vame  12.61Spur gearing 44 .Propulsion fluid is pressurized gas  12.62 .Operator powered drive for 45Produced by combustion propulsion means 46Having means to prevent clogging  12.63 .Flexible endless track 47Having means to increase fluid drive means efficiency  12.64Driven by sprocket-type wheel 48Driven by sprocket-type wheel   | 12.51 |                                 | 29         | Having endless drive member             |
| 12.52Propulsion means moveable to stowed position 32Lever with connecting linkage 32Lever with connecting linkage 34 Mater propulsion means is 33 TOWING moveable 34 And land propulsion means is 35 Track system moveable 36 Ground wheel or poler 37 AIR PROPELLED BOAT propulsion means 38 Flexible endless track 39 Auxiliary use of propulsive propulsion means fluid 12.57 Motor driven screw propeller 40 Mith bucket or clamshell-type shaft 41 With bucket or clamshell-type (e.g., belt, chain) 42 Privoted outlet 12.59 By gearing 43 Pivoted outlet 12.61 Spur gearing 44 Propulsion fluid is pressurized 20.0perator powered drive for 45 Produced by combustion propulsion means 46 Having means to increase fluid drive means efficiency 12.63 Flexible endless track 47 Having means to increase fluid drive means efficiency 12.65 Electical screw propulsion means 49 Propulsion durive means efficiency 12.66 Driven by sprocket-type wheel 48 Having integral spoke and propelling blade means 12.69 Having integral spoke and propelling blade means 12.69 Having propelling blade means 12.69 Having propelling blade means 12.69 Having propelling blade  |       | 5                               | 30         |   |
| stowed position 32 Lever with connecting linkage  12.53Water propulsion means is 33 moveable 34 .Cable system  12.54And land propulsion means is 35Track system  moveable 36Ground wheel or poler  12.55Operator powered drive for 37 AIR PROPELLED BOAT  propulsion means 38 JET DRIVE  12.56Flexible endless track 39 .Auxiliary use of propulsive propulsion means fluid  12.57Motor driven screw propeller 40With bucket or clamshell-type reversing means  (e.g., belt, chain) 42Pivoted outlet  12.59By gearing 43Pivoted vane  12.60Bevel gearing 44Propulsion fluid is pressurized gas  12.61Spur gearing 45Produced by combustion propulsion means 46Having means to increase fluid drive means efficiency  12.63Flexible endless track 47Having means to increase fluid drive means efficiency  12.64Driven by sprocket-type wheel 48 HELICAL SCREW  12.65Helical screw propulsion means 49 SCREW PROPELLER  12.66Wheel-type propulsion means 50Variable pitch  12.67Drum type 51Combined with rudder  12.68Having integral spoke and propelling blade means  12.69Having propelling blade   | 12.52 | Propulsion means moveable to    | 31         |   |
| 12.53Water propulsion means is moveable  12.54And land propulsion means is moveable  12.55Operator powered drive for propulsion means  12.56Flexible endless track propulsion means  12.57Motor driven screw propeller shaft (e.g., belt, chain)  12.58By gearing (e.g., belt, chain)  12.59By gearing (e.g., belt, chain)  12.61Spur gearing (e.g., belt, chain)  12.62Devator powered drive for propulsion means (e.g., belt, chain)  12.63Bevel gearing (e.g., belt, chain)  12.64Driven by sprocket-type wheel (e.g., belt, chain)  12.65Bevel pendless track propulsion means (e.g., belt, chain)  12.66Devel gearing (e.g., belt, chain)  12.67Dum type (e.g., belt, chain)  12.68Driven by sprocket-type wheel (e.g., belt, chain)  12.69Bay gearing (e.g., belt, chain)  12.60Driven by sprocket-type wheel (e.g., belt, chain)  12.61Driven by sprocket-type wheel (e.g., belt, chain)  12.62Driven by sprocket-type wheel (e.g., chain)  12.63Driven by sprocket-type wheel (e.g., chain)  12.64Driven by sprocket-type wheel (e.g., chain)  12.65Driven by sprocket-type wheel (e.g., chain)  12.66Driven by sprocket-type wheel (e.g., chain)  12.67Drum type (e.g., chain)  12.68Driven type (e.g., chain)  12.69Having integral spoke and propelling blade means  12.69Having propelling blade   |       | -                               | 32         |   |
| moveable 34 .cable system  12.54And land propulsion means is 35 .Track system moveable 36 .Ground wheel or poler  12.55 .Operator powered drive for 37 AIR PROPELLED BOAT propulsion means 38 JET DRIVE  12.56Flexible endless track 39 .Auxiliary use of propulsive propulsion means fluid  12.57Motor driven screw propeller 40 .Direction control for fluid jet shaft 41with bucket or clamshell-type reversing means (e.g., belt, chain) 42Pivoted outlet  12.59By gearing 43Pivoted vane  12.61Spur gearing 44 .Propulsion fluid is pressurized 12.62 .Operator powered drive for 45Produced by combustion propulsion means 46 .Having means to prevent clogging  12.63 .Flexible endless track 47 .Having means to increase fluid propulsion means 49  12.64Driven by sprocket-type wheel 48  12.65  | 12.53 | _                               | 33         | TOWING                                  |
| 12.54And land propulsion means is moveable  12.55Operator powered drive for propulsion means and propulsion means are propulsion means and propulsio       |       |                                 | 34         |   |
| moveable 36 .Ground wheel or poler  12.55 .Operator powered drive for propulsion means 38 JET DRIVE  12.56Flexible endless track 39 .Auxiliary use of propulsive fluid  12.57 .Motor driven screw propeller 40 .Direction control for fluid jet shaft 41 .With bucket or clamshell-type reversing means (e.g., belt, chain) 42 .Propulsion fluid is pressurized 2.59By gearing 43 .Pivoted outlet 2.59By gearing 44 .Propulsion fluid is pressurized 2.61Spur gearing 45Produced by combustion propulsion means 46 .Having means to prevent clogging 2.63 .Flexible endless track 47 .Having means to increase fluid propulsion means 49 .Propulsion drive means efficiency 2.64Driven by sprocket-type wheel 48 .Having means to increase fluid 2.65Helical screw propulsion means 50 .Variable pitch 2.66Drum type 51Combined with rudder 2.69Having integral spoke and propelling bladeWith vibration dampening propelling blade  | 12.54 | And land propulsion means is    | 35         | _                                       |
| 12.55Operator powered drive for propulsion means 38 JET DRIVE  12.56Flexible endless track 39 .Auxiliary use of propulsive fluid propulsion means fluidWith bucket or clamshell-type reversing means (e.g., belt, chain) 42Pivoted outlet  12.59By gearing 43Pivoted vane (e.gBevel gearing 44Spur gearing 38Produced by combustion propulsion means 46Bevel propulsion means 46Broduced by combustion propulsion means 46Broduced by combustion drive means efficiency 12.63Flexible endless track 47Broduced by combustion drive means efficiency 12.64Driven by sprocket-type wheel 48 HELICAL SCREW 12.65Bevel screw propulsion means 49 SCREW PROPELLER 12.66Wheel-type propulsion means 50Variable pitch 12.67Drum type 51Combined with rudder 12.68Having integral spoke and propelling blade means 12.69Having propelling blade  |       |                                 |            |   |
| propulsion means 38 JET DRIVE  12.56Flexible endless track 39 .Auxiliary use of propulsive fluid  12.57Motor driven screw propeller 40With bucket or clamshell-type shaft 41With bucket or clamshell-type reversing means (e.g., belt, chain) 42Pivoted outlet  12.59By gearing 43Pivoted vane  12.60Spur gearing 44 .Propulsion fluid is pressurized gas  12.61Spur gearing 45Produced by combustion propulsion means 46Having means to prevent clogging 12.63 .Flexible endless track 47Having means to increase fluid drive means efficiency  12.64Driven by sprocket-type wheel 48   | 12.55 |                                 |            |   |
| 12.56Flexible endless track propulsion means fluid  12.57Motor driven screw propeller shaft 41With bucket or clamshell-type shaft 41With bucket or clamshell-type reversing means (e.g., belt, chain) 42Pivoted outlet  12.59By gearing 43Pivoted vane  12.61Spur gearing 44 .Propulsion fluid is pressurized gas  12.62 .Operator powered drive for propulsion means 46Having means to prevent clogging  12.63 .Flexible endless track propulsion means 47  |       |                                 |            |   |
| propulsion means  12.57Motor driven screw propeller shaft  12.58By flexible endless member (e.g., belt, chain)  12.59By gearing  12.60Bevel gearing  12.61Spur gearing  12.62 .Operator powered drive for propulsion means  12.63Flexible endless track propulsion means  12.64Driven by sprocket-type wheel  12.65Helical screw propulsion means  12.66Wheel-type propulsion means  12.66Driven by sprocket-spee wheel  12.66Driven by sprograms  12.67Drum type  12.68Having integral spoke and propelling blade means  12.69Having propelling blade   | 12.56 |                                 |            | <del></del>                             |
| 12.57Motor driven screw propeller shaft 41With bucket or clamshell-type reversing means (e.g., belt, chain) 42Pivoted outlet 12.59By gearing 43Pivoted vane 12.61Spur gearing 44 .Propulsion fluid is pressurized gas 12.62 .Operator powered drive for propulsion means 46Having means to prevent clogging 12.63 .Flexible endless track 47Having means to increase fluid propulsion means 49Driven by sprocket-type wheel 48Driven by sprocket-type wheel 49Driven by sp   |       | propulsion means                | 0,2        |   |
| shaft  12.58By flexible endless member   | 12.57 |                                 | 4.0        |   |
| 12.58By flexible endless member  |       |                                 |            | _                                       |
| (e.g., belt, chain)  12.59By gearing  12.6Bevel gearing  12.61Spur gearing  12.62 .Operator powered drive for propulsion means  12.63 .Flexible endless track propulsion means  12.64Driven by sprocket-type wheel  12.65 .Helical screw propulsion means  12.66 .Wheel-type propulsion means  12.67Drum type  12.68Having integral spoke and propelling blade  12.69Having propelling blade  12.69Having integral spoke and propelling blade  12.69Having propelling blade  12.69Having propelling blade  | 12.58 |                                 | 11         |   |
| 12.59By gearing 43Pivoted vane 12.6Bevel gearing 44 .Propulsion fluid is pressurized 12.61Spur gearing gas 12.62 .Operator powered drive for 45Produced by combustion propulsion means 46 .Having means to prevent clogging 12.63 .Flexible endless track 47 .Having means to increase fluid propulsion means drive means efficiency 12.64Driven by sprocket-type wheel 48 HELICAL SCREW 12.65 .Helical screw propulsion means 49 SCREW PROPELLER 12.66 .Wheel-type propulsion means 50 .Variable pitch 12.67Drum type 51 .Combined with rudder 12.68Having integral spoke and propelling blade means 12.69Having propelling blade   |       | -                               | 4.2        | _                                       |
| 12.6Bevel gearing 12.61Spur gearing 12.62 .Operator powered drive for propulsion means 12.63 .Flexible endless track propulsion means 12.64Driven by sprocket-type wheel 12.65 .Helical screw propulsion means 12.66 .Wheel-type propulsion means 12.67Drum type 12.68Having integral spoke and propelling blade 12.69Having propelling blade  44 .Propulsion fluid is pressurized gas Produced by combustion 45Produced by combustion 46Having means to prevent clogging 47Having means to increase fluid drive means efficiency 48 HELICAL SCREW 49 SCREW PROPELLER 40Variable pitch 41Combined with rudder 41Drum type 42Drum type 43Drum type 44Propulsion fluid is pressurized 45Produced by combustion 46Having means to increase fluid 47Having means to increase fluid 48Having means efficiency 48Drum type gropulsion means 49Drum type screw propeller 48Drum type screw propeller 48Drum type screw propeller 49Drum type screw propeller 40Drum type screw propeller 40Drum type screw propeller 41Drum type screw propeller 42Drum type screw propeller 43Drum type screw propeller 44Drum type screw propeller 45Drum type screw propeller 46Drum type screw propeller 47Drum type screw propeller 48Drum type screw propeller 48Drum type screw propeller 49Drum type screw propeller 49Drum type screw propeller 40Drum type screw propeller 40Drum type screw propeller 40Drum type screw propeller 41Drum type screw propeller 42Drum type screw propeller 43Drum type screw propeller 44Drum type screw propeller 45Drum type screw propeller 46Drum type screw propeller 47Drum type screw propeller 48Drum type screw propeller 49Drum type screw propeller 49Drum type screw propeller 49Drum type screw propeller 40Drum ty  | 12.59 |                                 |            |   |
| 12.61Spur gearing 12.62 .Operator powered drive for propulsion means 46 .Having means to prevent clogging 12.63 .Flexible endless track 47 .Having means to increase fluid drive means efficiency 12.64Driven by sprocket-type wheel 48 HELICAL SCREW 12.65 .Helical screw propulsion means 49 SCREW PROPELLER 12.66 .Wheel-type propulsion means 50 .Variable pitch 12.67Drum type 51 .Combined with rudder 12.68Having integral spoke and propelling blade means 12.69Having propelling blade  |       |                                 |            |   |
| 12.62 .Operator powered drive for propulsion means 46 .Having means to prevent clogging 45Produced by combustion 46 .Having means to prevent clogging 46 .Having means to increase fluid 47 .Having means to increase fluid 47 drive means efficiency 48 .Driven by sprocket-type wheel 48 HELICAL SCREW 47Driven by sprocket-type wheel 48 SCREW PROPELLER 49 49 SCREW PROPELLER 49 40  |       |                                 | 11         |   |
| propulsion means  12.63 .Flexible endless track     propulsion means  12.64 .Driven by sprocket-type wheel  12.65 .Helical screw propulsion means  12.66 .Wheel-type propulsion means  12.67 .Drum type  12.68 .Having means to increase fluid drive means efficiency  HELICAL SCREW  SCREW PROPELLER  .Variable pitch  .Combined with rudder  .Combined with rudder  .With vibration dampening propelling blade  12.69 .Having propelling blade   |       |                                 | 45         | _                                       |
| 12.63 .Flexible endless track     propulsion means 12.64Driven by sprocket-type wheel 12.65 .Helical screw propulsion means 12.66 .Wheel-type propulsion means 12.67Drum type 12.68Having integral spoke and     propelling blade 12.69Having propelling blade  47   | 12.02 |                                 |            | _                                       |
| propulsion means  12.64Driven by sprocket-type wheel 12.65 .Helical screw propulsion means 12.66 .Wheel-type propulsion means 12.67Drum type 12.68Having integral spoke and propelling blade 12.69Having propelling blade  12.69Having propelling blade  drive means drive means efficiency  HELICAL SCREW  SCREW PROPELLER Variable pitch Combined with rudder With vibration dampening  propelling blade  drive means efficiency  Let SCREW  SCREW PROPELLER Variable pitch Combined with rudder With vibration dampening  | 12 63 |                                 |            |   |
| 12.64Driven by sprocket-type wheel 48 HELICAL SCREW 12.65 .Helical screw propulsion means 49 SCREW PROPELLER 12.66 .Wheel-type propulsion means 50 .Variable pitch 12.67Drum type 51 .Combined with rudder 12.68Having integral spoke and 52 .With vibration dampening propelling blade means 12.69Having propelling blade   | 12.05 |                                 | <b>4</b> / |   |
| 12.65 .Helical screw propulsion means 49 SCREW PROPELLER  12.66 .Wheel-type propulsion means 50 .Variable pitch  12.67Drum type 51 .Combined with rudder  12.68Having integral spoke and 52 .With vibration dampening propelling blade means  12.69Having propelling blade   | 12 64 |                                 | /I Q       |   |
| 12.66 .Wheel-type propulsion means 50 .Variable pitch 12.67Drum type 51 .Combined with rudder 12.68Having integral spoke and propelling blade means 12.69Having propelling blade   |       |                                 |            |   |
| 12.67Drum type 51 .Combined with rudder 12.68Having integral spoke and propelling blade means 12.69Having propelling blade   |       |                                 |            |   |
| 12.68Having integral spoke and 52 .With vibration dampening propelling blade means 12.69Having propelling blade  |       |                                 |            |   |
| propelling blade means 12.69Having propelling blade  |       |                                 |            |   |
|  | 12.00 |                                 | 54         | .with vibration dampening               |
| extending from side of wheel   | 12.69 | Having propelling blade         |            |   |
|  |       | extending from side of wheel    |            |   |

| 53 | .With means effecting or       | 86             | .For transmission                 |
|----|--------------------------------|----------------|-----------------------------------|
|    | facilitating movement of       | 87             | .For engine speed                 |
|    | propulsion unit or a segment   | 88             | MEANS FOR HANDLING ENGINE FLUIDS  |
|    | of the propulsion unit (e.g.,  | 89             | .Exhaust gas handling means       |
|    | tilting or steering)           | 90             | PADDLE WHEEL                      |
| 54 | With means limited to vertical | 91             | .Having means to reposition       |
|    | movement within hull cavity    |                | paddle wheel assembly             |
| 55 | Having restraining means       | 92             | .Having means to retract paddle   |
| 56 | With releasing means when      | 72             | or change paddle attitude         |
|    | propulsion unit hits           | 93             | Having means to provide cyclic    |
|    | obstruction                    | <i>J J</i>     | change of paddle attitude         |
| 57 | Having gimbal or universal     |                | (e.g., Voith Schneider)           |
|    | joint support                  | 94             | UPRIGHT REMAINING ORBITING        |
| 58 | Having toothed or threaded     |                | PADDLES                           |
|    | member to move propulsion unit | 95             | FLEXIBLE ENDLESS PROPELLING MEANS |
|    | or a segment of the propulsion | 96             | .With paddle                      |
|    | unit                           | 97             | Foldable or retractable to        |
| 59 | Screw type                     | <i>3</i> /     | nonpropelling position            |
| 60 | Rack and pinion                | 98             | BUOYANT PROPELLING MEANS          |
| 61 | Having fluid motor to move     | 99             | .Rotating outer hull              |
|    | propulsion unit or a segment   | 100            | .Wheellike                        |
|    | of the propulsion unit         | 101            | OAR OR PADDLE                     |
| 62 | Having pliant member to move   | 102            | Articulated sectional oar or      |
|    | propulsion unit or a segment   | 102            | paddle                            |
|    | of the propulsion unit         | 103            | Having gear                       |
| 63 | Having link or lever to move   | 103            |                                   |
|    | propulsion unit or a segment   | 104            | Support                           |
|    | of the propulsion unit         |                | Having outrigger                  |
| 64 | Having shaft with releasable   | 106            | Oarlock                           |
|    | coupling                       | 107            | Having oar shaft restraining      |
| 65 | With means to lift propeller   | 108            | means                             |
|    | when an obstruction is hit     |                | Separate mounting means           |
| 66 | .Having means to control flow  | 109            | Socket type                       |
|    | around propeller               | 110            | Having guard for oar              |
| 67 | Nozzle (Kort-Type)             | 111            | INBOARD ENGINE MOUNT              |
| 68 | Hull channel                   | 112            | .Having thru-hull sealing means   |
| 69 | With open bottom               | 113            | MISCELLANEOUS                     |
| 70 | Hull concavity                 |                |                                   |
| 71 | .Propeller guard               |                |                                   |
| 72 | Cage or screen                 |                |                                   |
| 73 | .Self-clearing                 | CROSS-R        | EFERENCE ART COLLECTIONS          |
| 74 | .Shaft braking or locking      |                |                                   |
| 75 | .Having transmission           | 900            | OUTBOARD MOTORS AND OUTDRIVES     |
| 76 | .Propulsion unit casing        |                |                                   |
| 77 | Cowl                           |                |                                   |
| 78 | Propeller shaft housing        |                |                                   |
| 79 | .Propeller arrangement         | <b>FOREIGN</b> | ART COLLECTIONS                   |
| 80 | Tandem                         |                |                                   |
| 81 | On single shaft                | FOR            | CLASS-RELATED FOREIGN DOCUMENTS   |
| 82 | Supporting strut               |                |                                   |
| 83 | .Shafting                      |                |                                   |
| 84 | ENGINE, MOTOR, OR TRANSMISSION |                |                                   |
|    | CONTROL MEANS                  |                |                                   |
| 85 | .For starter means             |                |                                   |
|    |                                |                |                                   |